

INTERNATIONAL SEARCH REPORT

 Application No
 PCT/EP 03/50281

 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 F25B9/00 F25B49/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F25B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 230 506 B1 (HOTTA TADASHI ET AL) 15 May 2001 (2001-05-15)	1-3,7,9
Y	abstract	4,5,8,10
A	column 5, line 33 - column 8, line 27; figures 1,3	6
Y	US 2001/0003904 A1 (HAMERY BRUNO ET AL) 21 June 2001 (2001-06-21) abstract paragraph '0030! - paragraph '0042! figures 1,4,5	4
Y	EP 0 837 291 A (DENSO CORP ; NIPPON SOKEN (JP)) 22 April 1998 (1998-04-22) abstract column 32, line 38 - column 33, line 1 figure 35	5
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

7 November 2003

Date of mailing of the international search report

14/11/2003

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Inventor's Application No.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	R.P. MCENANEY AND P.S. HRNJAK: "Control strategies for transcritical R744 Systems" SAE PAPER 2000-01-1272, 6 March 2000 (2000-03-06), page ALL, XP0001169085 the whole document	8,10
X	DE 100 53 203 A (DENSO CORP ; NIPPON SOKEN (JP)) 7 June 2001 (2001-06-07) abstract column 18, line 48 - column 19, line 35; figure 18	1-3,5,9,10
X	EP 0 786 632 A (DENSO CORP ; NIPPON SOKEN (JP)) 30 July 1997 (1997-07-30) abstract figure 14	1
A	US 2001/0035286 A1 (SHIMIZU TOSHITAKA ET AL) 1 November 2001 (2001-11-01) the whole document	1
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 07, 3 July 2002 (2002-07-03) & JP 2002 081766 A (MATSUSHITA ELECTRIC IND CO LTD), 22 March 2002 (2002-03-22) abstract; figures 1,3,5	1,2,10
A	FR 2 798 325 A (VALEO CLIMATISATION) 16 March 2001 (2001-03-16) abstract	3-7
A	EP 1 101 639 A (TOYODA AUTOMATIC LOOM WORKS) 23 May 2001 (2001-05-23) abstract; figures 4-7	6
A	EP 0 935 107 A (TOYODA AUTOMATIC LOOM WORKS) 11 August 1999 (1999-08-11) abstract	8
A	FR 2 796 595 A (VALEO CLIMATISATION) 26 January 2001 (2001-01-26)	
A	US 6 367 272 B1 (HIRAO TOYOTAKA ET AL) 9 April 2002 (2002-04-09)	